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CLAIMS

1. Cosmetic and/or dermatological composition intended for treating keratin fibres, in particular human keratin fibres and more particularly human hair, comprising, in a support which is suitable for keratin fibres:
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- (a) at least one enzyme of 2-electron oxidoreductase type in the presence of at least one donor for the said enzyme;
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- (b) at least one substantive polymer chosen from the group consisting of:
- (i) cationic cellulose derivatives;
- (ii) dimethyldiallylammonium halide homopolymers and copolymers of dimethyldiallylammonium halide and of (meth)acrylic acid;
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- (iii) methacryloyloxyethyltrimethylammonium halide homopolymers and copolymers;
- (iv) polyquaternary ammonium polymers;
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- (v) vinylpyrrolidone polymers containing cationic units;
- (vi) mixtures thereof.
2. Composition according to Claim 1, characterized in that the 2-electron oxidoreductase is chosen from uricases of animal, microbiological or biotechnological origin.
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3. Composition according to Claim 1 or 2, characterized in that the 2-electron oxidoreductase(s) represent(s) from 0.01 to 20% by weight relative to the total weight of the composition.
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4. Composition according to Claim 3, characterized in that the 2-electron oxidoreductase(s) represent(s) from 0.1 to 5% by weight relative to the total weight of the composition.
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5. Composition according to Claim 2, characterized in that the donor (or substrate) for the said 2-

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electron oxidoreductase is chosen from uric acid and its salts.

6. Composition according to any one of the preceding claims, characterized in that the donor(s) represent(s) from 0.01 to 20% by weight relative to the total weight of the composition.

7. Composition according to Claim 6, characterized in that the donor(s) represent(s) from 0.1 to 5% by weight relative to the total weight of the composition.

8. Composition according to any one of Claims 1 to 7, characterized in that the cellulosic substantive polymers are quaternized cellulose ether derivatives.

9. Composition according to any one of Claims 1 to 7, characterized in that the substantive polymers of dimethyldiallylammonium halide polymer or copolymer type are chosen from:

- the crosslinked poly(methacryloyloxyethyltrimethylammonium chloride) homopolymers, as a 50% dispersion in mineral oil,
- the crosslinked copolymer of acrylamide and of methacryloyloxyethyltrimethylammonium chloride (20/80 by weight), as a 50% dispersion in mineral oil,
- the methosulphate of the copolymer of methacryloyloxyethyltrimethylammonium and of methacryloyloxyethyldimethylacetylammonium.

10. Composition according to any one of Claims 1 to 7, characterized in that the substantive polymers of the dimethyldiallylammonium halide polymer type are chosen from:

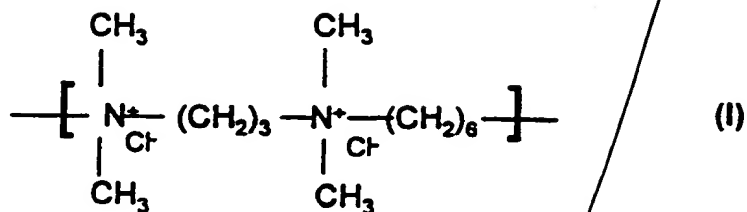
- dimethyldiallylammonium chloride homopolymers,
- the copolymer of dimethyldiallylammonium chloride and of acrylic acid.

11. Composition according to any one of Claims 1 to 7, characterized in that the substantive polymers of the polyquaternary ammonium type are chosen from:

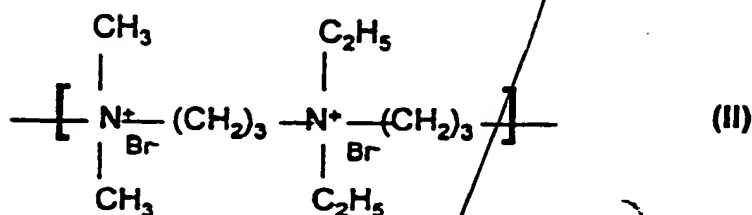
- polymers consisting of repeating units

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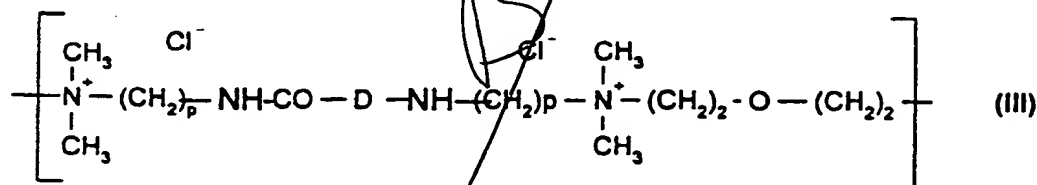
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corresponding to formula (I) below:



- polymers consisting of repeating units corresponding to formula (II) below:



- polymers consisting of repeating units corresponding to formula (III) below:



in which p denotes an integer ranging from 1 to 6 approximately, D can be zero or can represent a group  $-(\text{CH}_2)_r\text{-CO-}$  in which r denotes a number equal to 4 or to 7.

12. Composition according to any one of Claims 1 to 7, characterized in that the substantive polymers of the vinylpyrrolidone polymer type containing cationic units are chosen from:

- vinylpyrrolidone polymers containing dimethylaminoethyl methacrylate units;
- vinylpyrrolidone polymers containing methacrylamidopropyltrimethylammonium units;
- vinylpyrrolidone polymers containing methylvinylimidazolium units.

13. Composition according to any one of Claims 1 to 12, characterized in that the concentration of

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substantive polymer can range between 0.01 and 10% relative to the total weight of the composition, and preferably between 0.1 and 5%.

14. Ready-to-use composition according to any one of Claims 1 to 13, for the oxidation dyeing of keratin fibres, and in particular human keratin fibres such as the hair, of the type also comprising, in a medium which is suitable for keratin fibres, at least one oxidation base and, optionally, one or more couplers.

15. Composition according to Claim 14, characterized in that the oxidation bases are chosen from para-phenylenediamines, double bases, ortho- or para-aminophenols and heterocyclic bases, as well as the addition salts of these compounds with an acid.

16. Composition according to Claim 14 or 15, characterized in that the oxidation bases are present in concentrations ranging from 0.0005 to 12% by weight relative to the total weight of the composition.

17. Composition according to any one of Claims 14 to 16, characterized in that the couplers are chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols and heterocyclic couplers, and the addition salts of these compounds with an acid.

18. Composition according to any one of Claims 14 to 17, characterized in that the couplers are present in concentrations ranging from 0.0001 to 10% by weight relative to the total weight of the composition.

19. Composition according to any one of Claims 14 to 18, characterized in that the addition salts with an acid for the oxidation bases and the couplers are chosen from the hydrochlorides, hydrobromides, sulphates, tartrates, lactates and acetates.

20. Composition according to any one of Claims 14 to 19, characterized in that it also contains direct dyes.

21. Composition according to any one of Claims 1 to

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22. Composition according to any one of Claims 1 to 21, characterized in that the organic solvents can be present in proportions preferably ranging from 1 to 40% by weight relative to the total weight of the composition, and even more preferably ranging from 5 to 30% by weight.

24. Composition according to any one of Claims 1 to  
15 23, characterized in that it also contains at least one  
cosmetic adjuvant used conventionally in compositions  
for dyeing, permanently reshaping or bleaching the  
hair, chosen from the group consisting of anionic,  
cationic, nonionic, amphoteric or zwitterionic  
20 surfactants or mixtures thereof, anionic or nonionic  
polymers, inorganic or organic thickeners, anti-  
oxidants, enzymes other than the 2-electron oxido-  
reductases, penetration agents, sequestering agents,  
fragrances, buffers, dispersing agents, conditioners,  
25 film-forming agents, preserving agents and opacifiers.

26. Process according to Claim 25, characterized in that it includes a first step which consists in separately storing, on the one hand, a composition (A) comprising, in a medium which is suitable for dyeing, at least one oxidation base and optionally at least one

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